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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,827		11/08/2001	Woo Sik Yoo	M-11914 US 3118	
24251	7590	04/09/2003			
SKJERVEN MORRILL LLP				EXAMINER	
25 METRO DRIVE SUITE 700				TRINH, MICHAEL MANH	
SAN JOSE, CA 95110			ART UNIT	PAPER NUMBER	
				2822	
				DATE MAILED: 04/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n N .	Applicant(s)						
d 2		10/005,827	YOO, WOO SIK						
	Offic Action Summary	Examin r	Art Unit						
		Michael Trinh	2822						
Period fo	The MAILING DATE of this communication apport	bears on the cover sheet with the c	orrespondence address						
THE - Exterester after - If the - If NC - Failu - Any (ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl of period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).						
1)⊠	Responsive to communication(s) filed on 22	January 2003 .							
2a)⊠	This action is FINAL . 2b) The	nis action is non-final.							
3)	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
	ion of Claims								
4)⊠	Claim(s) <u>1-10 and 13-16</u> is/are pending in the	• •							
c) 57	4a) Of the above claim(s) is/are withdra	wn from consideration.							
·	Claim(s) <u>2-6 and 8-10</u> is/are allowed.								
	Claim(s) 1,7 and 13-16 is/are rejected.								
	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
	ion Papers	or election requirement.							
9)	The specification is objected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority (under 35 U.S.C. §§ 119 and 120								
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).						
a)	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority document	ts have been received.							
	2. Certified copies of the priority document	ts have been received in Applicat	ion No						
* (3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	ıreau (PCT Rule 17.2(a)).	_						
14) 🗌 🗸) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)									
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)						
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Application/Control Number: 10/005,827

Art Unit: 2822

DETAILED ACTION

*** This office action is in response to Applicant's amendment filed on January 22, 2003. Claims 11-12 were canceled. Claims 1-10 and 13-16 are currently pending.

*** The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

1. Claims 1, 7, and 13-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhao et al (6,189,482).

Zhao et al disclose a system comprising a processing chamber 30 defining a processing area; and a first plate positioned within the processing chamber and defining a first internal cavity, with a buffer baffle 62 is for dispersing the gas, configured to receive a first gas, wherein and wherein the gas comprises N₂, He, H₂, O₂, Ar, and gas mixtures containing He, H₂, O₂, Ar, and N₂ (column 9, lines 33-49; Figs 2-3), through a first passage into the first internal cavity at a first temperature and to emit the first gas form the first internal cavity through an outlet portion 40 through a plurality of holes 42 at a second temperature (column 10, lines 49-65; and column 31, lines 35-60).

Allowable Subject Matter

- 2. Claims 2-6, 8-10 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter: Claims 2 and 8 have been rewritten into independent form by Applicant, and thus allowable with dependent claims 3-6, and 9-10.

Response to Arguments

- 4. Applicant's remarks filed January 22, 2003 have been fully considered but they are not persuasive, and are also moot in view of the new ground(s) of rejection.
 - ** Applicant mainly remarked (at remark pages 4-5) that
 - "...Zhao et al. discloses a liquid heat exchange system 6 which delivers liquid to various components of chamber 30 ' to maintain these components at a suitable temperature during the high temperature processing'...Zhao et al. is disclosing a system,

Application/Control Number: 10/005,827

Art Unit: 2822

which is used to keep the components of the system form overheating, similar to a radiator in an automobile. There is no teaching or suggestion in Zhao et al that a gas entering the system would enter at a first temperature and then emitted at a second temperature into a processing area".

In response, this is noted and found unconvincing. Due to the high heating temperature during fabrication, the showerhead 40 as the first plate having a first internal cavity is also heated so that a first gas entering from a first passage 44 into the internal cavity at a first temperature is changed to a second temperature due to this high heating temperature. Indeed, the showerhead 40 having the outlets or holes 42 as the first plate may be heat up due to its proximity to the heater pedestal which may heat up to temperatures of at least 400°C or greater (column 31, lines 35-60. Accordingly, the first gas emitted form the internal cavity through a second outlet/hole passage 42 is inherently changed to a second temperature due to the high heating temperature.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael M. Trinh whose telephone number is (703) 308-2554. The examiner can normally be reached on M-F from 8:30 Am to 4:30 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (703) 308-4905. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Oacs

Michael Trinh
Primary Examiner